ORDER NO. HAD8704087C8

# Service Manual

Stereo Integrated Amplifier

Amplifier

# SU-V65A

**Color**

| |
|---|
| (S) .....Silver Type |
| (K) .....Black Type |

**Area**

| Color | Area |
|---|---|
| (S)(K) | (E) .....Continental Europe. |
| (S)(K) | (Ei) .....Italy. |
| (S)(K) | (EG).....F.R.Germany. |
| (S)(K) | (EB).....Belgium. |
| (S)(K) | (EK).....United Kingdom. |
| (S)(K) | (EF) .....France. |
| (S)(K) | (EH).....Holland. |
| (S)(K) | (XL) .....Australia. |
| (S)(K) | (XA).....Asia,Latin America,Middle Near East,Africa and Oceania. |

## SPECIFICATIONS

(DIN 45 500)

### ■ AMPLIFIER SECTION

| | |
|---|---|
| 20 Hz ~ 20 kHz continuous power output | |
| both channels driven | 2 x 85 W (8Ω) |
| 1 kH continuous power output | |
| both channels driven | 2 x 135 W (4Ω) |
| Total harmonic distortion | |
| rated power at 20 Hz ~ 20 kHz | 0.002% (8Ω) |
| rated power at 1 kHz | 0.005% (4Ω) |
| | 0.0009% (8Ω) |
| half power at 20 Hz ~ 20 kHz | 0.002% (8Ω) |
| half power at 1 kHz | 0.002% (4Ω) |
| | 0.0008% (8Ω) |
| Intermodulation distortion | |
| rated power at 250 Hz:8 kHz=4:1, 8Ω | 0.005% |
| rated power at 60 Hz:7 kHz=4:1,SMPTE,8Ω | 0.005% |
| Power bandwidth | |
| both channels driven,-3dB | 5 Hz ~ 60 kHz (8Ω,0.03%) |
| Residual hum and noise | 0.8 mV |
| Damping factor | 30 (4Ω),60 (8Ω) |
| Input sensitivity and impedance | |
| PHONO MM | 2.5mV/47 kΩ |
| PHONO MC | 170 μV/220 Ω |
| TUNER,CD,AUX,TAPE 1/DA TAPE, TAPE 2/EXT | 150mV/22 kΩ |
| PHONO maximum input voltage (1 kHz,RMS) | |
| MM | 160 mV |
| MC | 12 mV |
| S/N | |
| rated power(4Ω) | |
| PHONO MM | 78 dB (86 dB:IHF,A) |
| PHONO MC | 65 dB (68 dB:IHF,A) |
| TUNER,CD,AUX, TAPE 1/DA TAPE,TAPE 2/EXT | 92 dB (100 dB:IHF,A) |
| -26 db power (4Ω) | |
| PHONO MM | 69 dB |
| PHONO MC | 65 dB |
| TUNER,CD,AUX, TAPE 1/DA TAPE,TAPE 2/EXT | 70 dB |
| 50 mW power (4Ω) | |
| PHONO MM | 62 dB |
| PHONO MC | 61 dB |
| TUNER,CD,AUX, TAPE 1/DA TAPE,TAPE 2/EXT | 63 dB |
| Frequency responce | |
| PHONO | RIAA standard curve ± 0.8dB(30 Hz ~ 15 kHz) |
| TUNER,CD,AUX, TAPE 1/DA TAPE,TAPE 2/EXT | 5 Hz ~ 120 kHz (-3 dB) +0, -0.2 dB (20 Hz ~ 20 kHz) |
| Tone controls | |
| BASS | 50 Hz, +10 dB ~ -10 dB |
| TREBLE | 20 kHz, +10 dB ~ -10 dB |
| Subsonic filter | 20 Hz,-6 dB/oct. |
| Loudness control (volume at -30 dB) | 50 Hz, +9 dB |
| Output voltage | |
| TAPE 1,2 REC OUT | 150 mV |
| Channel balance, AUX 250 Hz ~ 6,300 Hz | ±1 db |
| Channel separation, AUX 1 kHz | 50dB |
| Headphones output level and impedance | 600 mV/330 Ω |
| Load impedance | |
| MAIN or REMOTE | 4 Ω ~ 16 Ω |
| MAIN and REMOTE | 8 Ω ~ 16 Ω |

### ■ GENERAL

| | |
|---|---|
| Power consumption | 620 W |
| Power supply | |
| For United Kingdom and Australia | AC 50 Hz/60 Hz, 240 V |
| For continental Europe | AC 50 Hz/60 Hz,220 V |
| For others | AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V |
| Dimensions (W x H x D) | 430 x 126 x 340 mm (16-15/16″ x 4-31/32″ x 13-6/16″) |
| Weight | 9.1 kg (20.1 lb.) |

**Notes:**

1.Specifications are subject to change without notice. Weight and dimensions are approximate.

2.Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

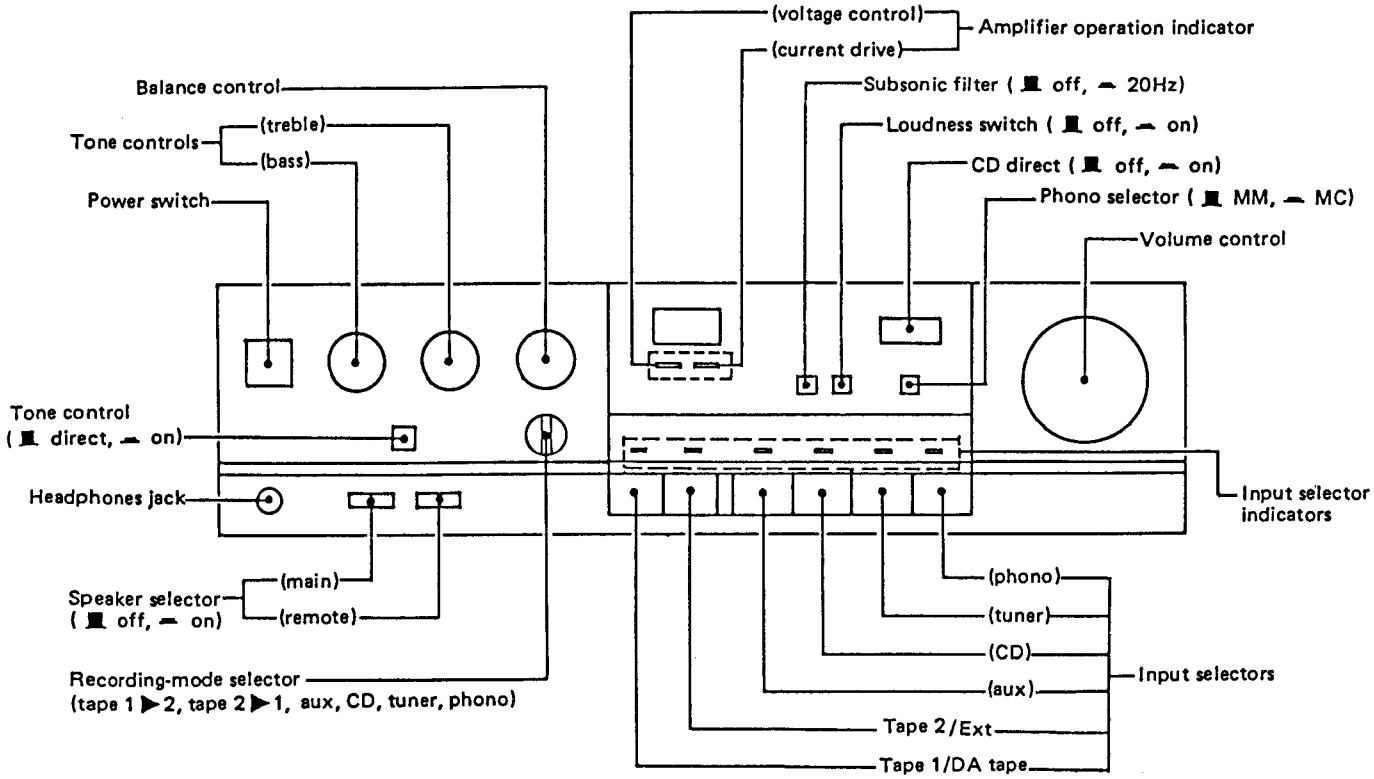
Technics

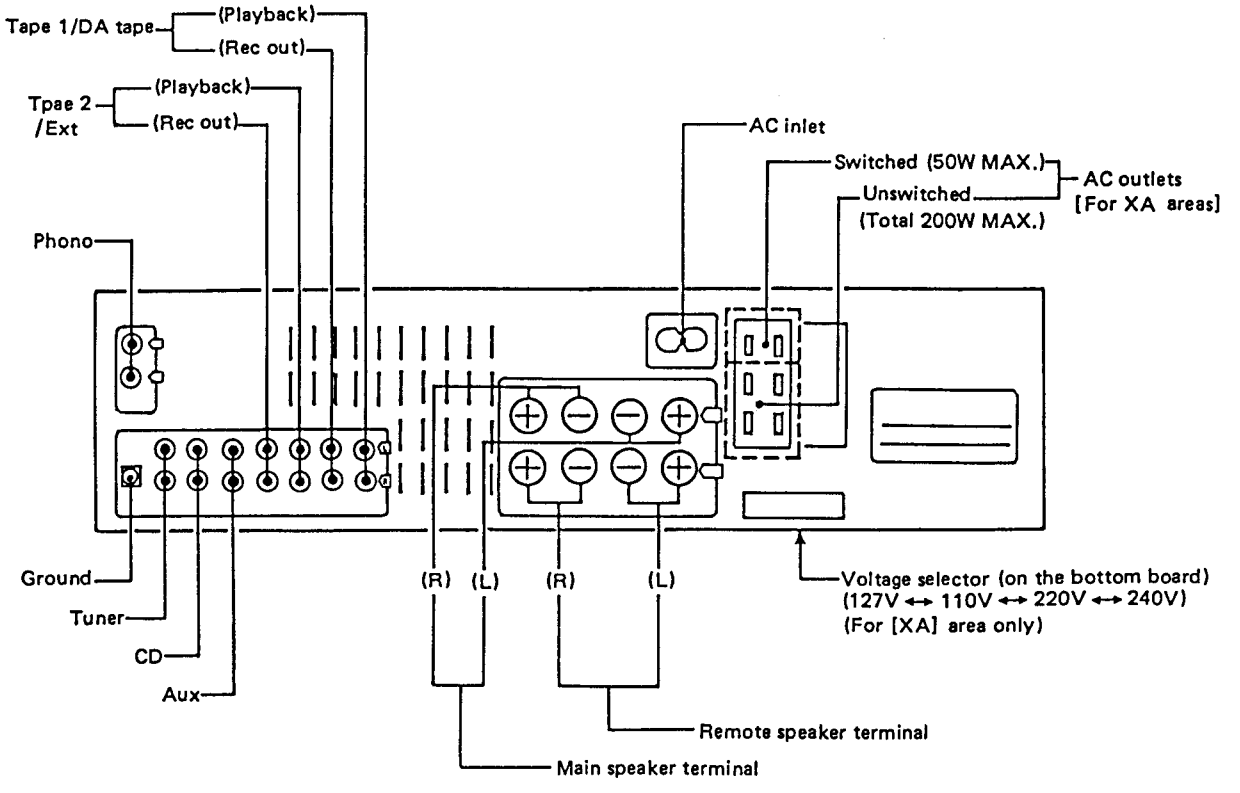
**Matsushita Electric Trading Co., Ltd.**
P.O. Box 288, Central Osaka Japan

# ■ CONTENTS


| | Page |
|---|---|
| LOCATION OF CONTROLS | 2 |
| PROTECTION CIRCUITRY | 3 |
| BEFORE REPAIR AND ADJUSTMENT | 3 |
| DISASSEMBLY INSTRUCTIONS | 4, 5 |
| MEASUREMENTS AND ADJUSTMENTS | 6 |
| PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM | 7 ~ 10 |
| SCHEMATIC DIAGRAM | 11 ~ 15 |
| BLOCK DIAGRAM | 16, 17 |
| REPLACEMENT PARTS LIST | 18 ~ 20 |
| EXPLODED VIEW | 21, 22 |


# ■ LOCATION OF CONTROLS






D

- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and replacement parts list.

* [XA] area is provided with voltage selector and AC outlets.
* 240V (50/60Hz) for Australia and United Kingdom.
* 220V (50/60Hz) for Continental Europe.
* 127V/110V/220V/240V (50/60Hz) for other [XA] area.
* Phono input capacitance is about 100pF.

**Suggestions**

- If noise is very annoying while listening to an FM or AM broadcast, switch OFF the video disc player, compact-disc player and turntable.
- Switch OFF the video disc player power if noise is excessive while listening to an audio tape, compact disc or regular phono disc.

**Notes:**

- To record sounds from a compact disc, press the input selector marked "CD".
  The compact-disc-direct switch is for listening only; it cannot be used to select the compact disc as a recording source.

## ■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted" , or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

**Note:**
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

## ■ BEFORE REPAIR AND ADJUSTMENT

(1) Turn off the power supply. Using a 10Ω, 5W resistor, shortcircuit both ends of power supply capacitors (C705, C706, 10000μF) in order to discharge the voltage.

(2) Before turning on the power switch of the set .
A. Connect the voltage controller to the primary side.
B. Connect the AC ampere meter to the primary side or connect the DC voltage metar to the "±B" circuit of the secondary side.
C. Turn the VR of ICQ (VR401 and VR402) to minimum (counterclockwise).
D. After setting the output to zero of the voltage contoller, turn on the power switch of the set.
And increase the output of voltage controller gradually.
Then, check carefully whether the current value of primary side become more than followings value or whether the DC voltage of secondary side is increasing slowly.
E. If the value of current is increasing unusually or the DC voltage is not increasing, lower the output level of voltage contoller immediately.
F. Check the transistors of voltage amplifier and current amplifier IC501.
G. After repairing, adjust the ICQ.

- The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the set.)

| Power supply voltage | AC110V | AC127V | AC220V | AC240V |
|---|---|---|---|---|
| Consumed current 50/60Hz | 280 ~ 560mA | 260 ~ 520mA | 140 ~ 280mA | 130 ~ 260mA |



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# ■ DISASSEMBLY INSTRUCTIONS

" ATTENTION SERVICER"

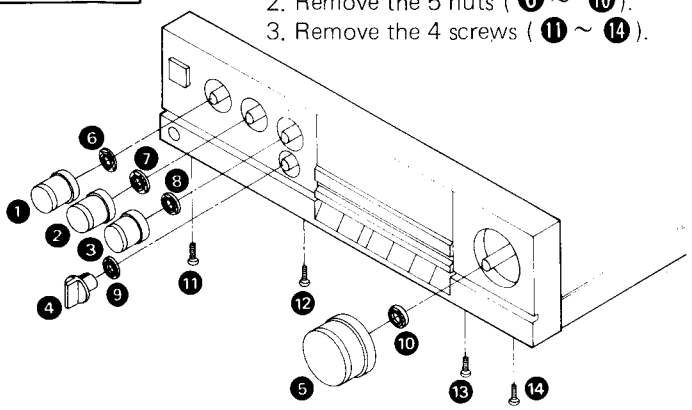
SOME CHASSIS COMPONENTS MAY HAVE SHARP EDGES.
BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

| Ref. No. 1 | How to remove the cabinet |
|---|---|
| Procedure 1 | ● Remove the 5 screws. |

| Ref. No. 2 | How to remove the front panel |
|---|---|

Procedure 1 →2

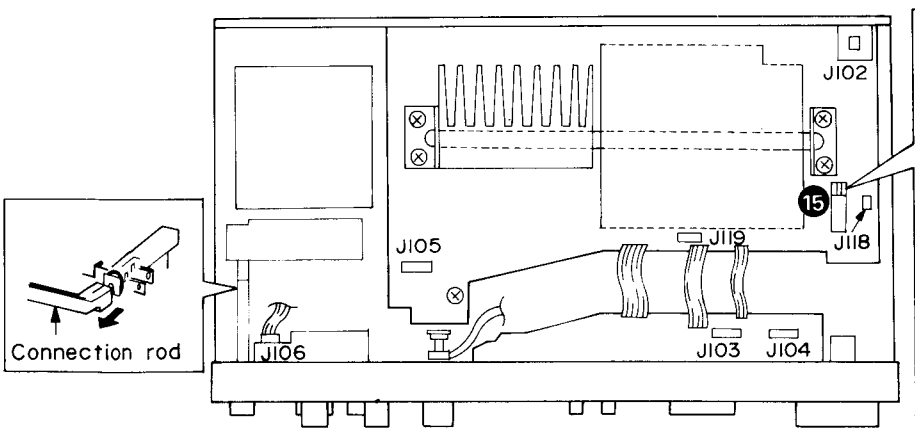
1. Remove the 5 knobs ( ❶ ~ ❺ ).
2. Remove the 5 nuts ( ❻ ~ ❿ ).
3. Remove the 4 screws ( ⓫ ~ ⓮ ).

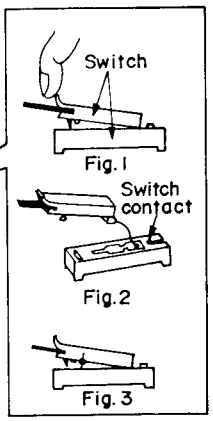


4. Remove the connection rod.
5. Remove the connector (J102, J103, J106, J118, J119).
6. Remove the flat cable (J104, J105).
7. Remove the "Rec-select" switch ( ⓯ ).

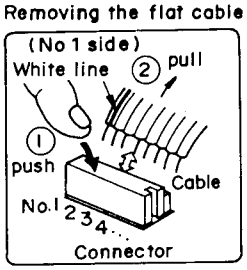
● **How to remove the "Rec-select" switch**
Pushing the rec switch, shift it up as in Fig. 1.

● **How to fit the rec switch**
(1) Shift the switch contact inside.
(2) Turn the "Rec-select" switch (selector knob) counterclockwise.
(3) Let the "Rec-select" switch claw change with the switch, and shift the "Rec-select" switch down while pushing in.



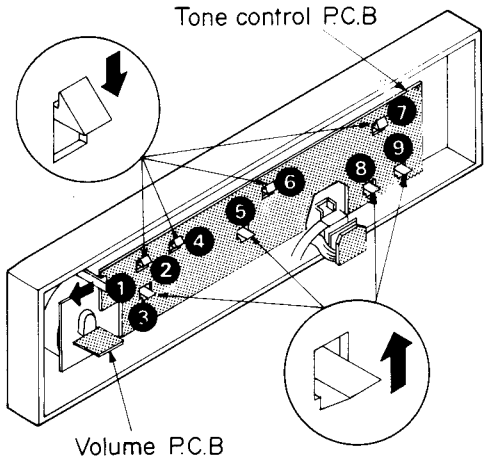

Removing the flat cable

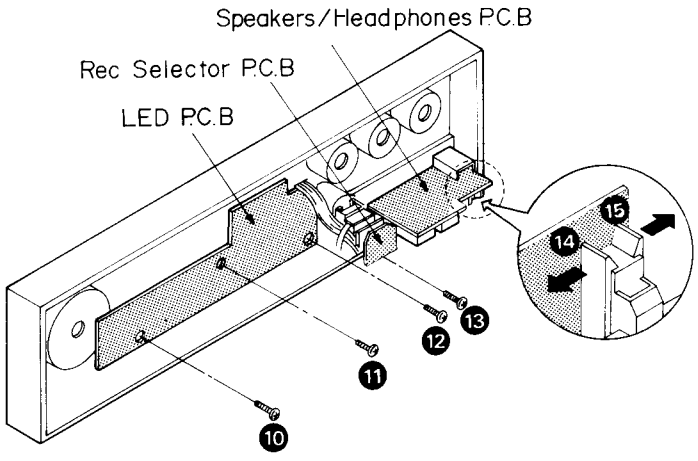



| Ref. No. 3 | How to remove the P.C.B. |
|---|---|

Procedure 1 →2 →3

1. Push the 9 tabs ( ❶ ~ ❾ ).
2. Remove the tone and volume P.C.B.
3. Remove the 3 screws ( ❿ ~ ⓬ ).
4. Remove the LED P.C.B.
5. Remove the 1 screw ( ⓭ ).
6. Push the 2 tabs ( ⓮ , ⓯ ).
7. Remove the speakers/headphones P.C.B.



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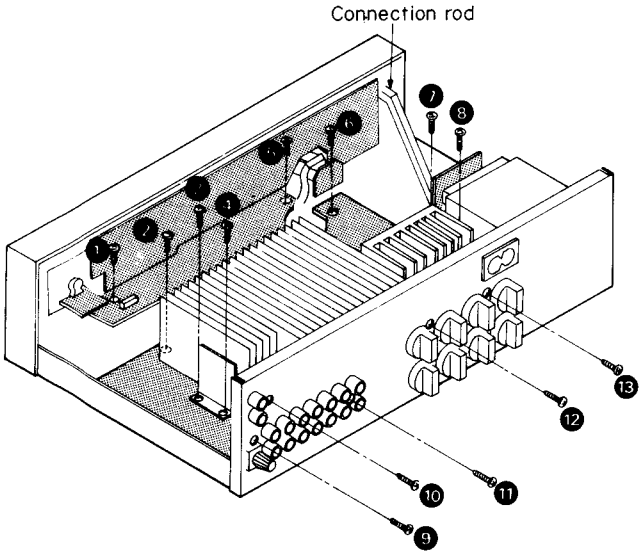
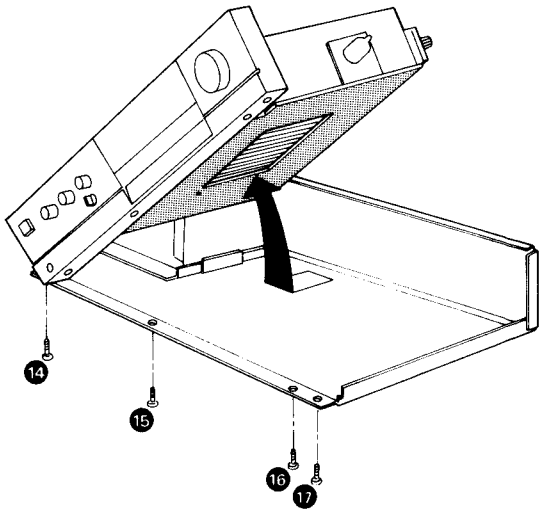
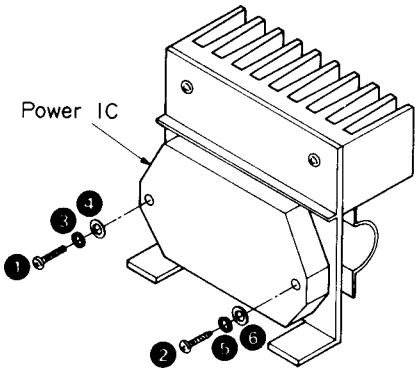
| Ref. No. 4 | How to remove the main P.C.B. |
|---|---|
| Procedure 1 →4 | 1. Remove the 15 screws ( ❶ ~ ⓮ ).<br>2. Remove the connection rod.<br>3. Remove the main P.C.B. |



| Ref. No. 5 | How to remove the power IC. |
|---|---|
| Procedure 1 →4 →5 | 1. Unsolder the power IC.<br>2. Remove the 2 screws ( ❶ , ❷ ).<br>3. Remove the 4 washer ( ❸ ~ ❻ ).<br>● When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC. |



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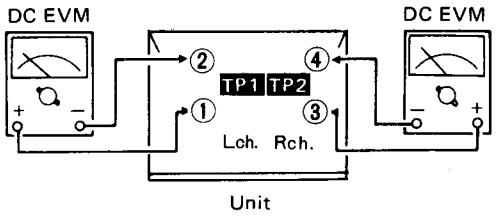
# ■ MEASUREMENTS AND ADJUSTMENTS

**Control positions and equipment used.**

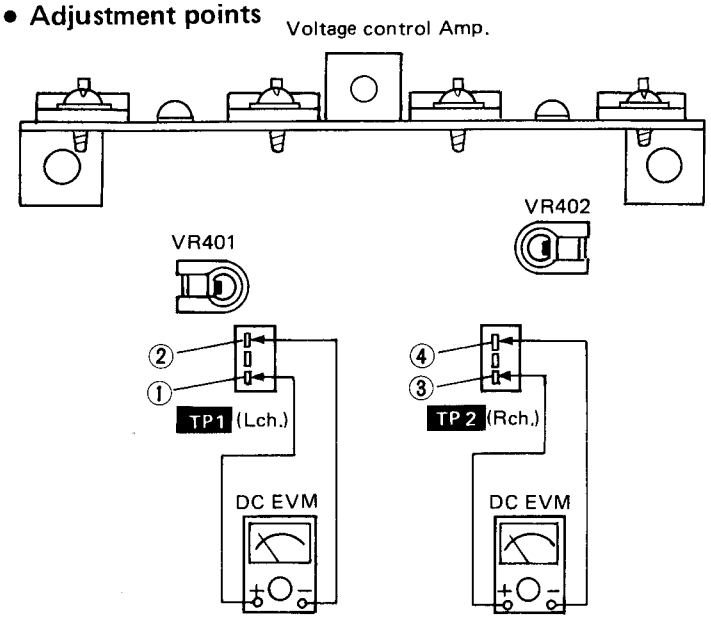
- Volume knob . . . . . 0 (Minimum)
- Main speaker selector . . . . . off
- Remote speaker selector . . . . . off
- Speaker impedance switch . . . . . 8Ω ~ 16Ω
- DC electronic voltmeter (EVM)

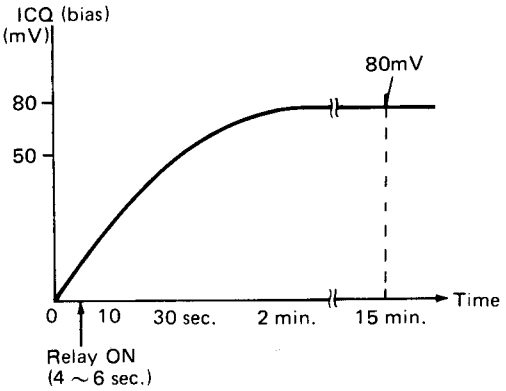
## IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. Connect the DC EVM. on both channels.)
2. Turn the ICQ control volume (**VR401, VR402**) counter-clockwise.
3. Turn ON the set when it is cold, and 15 sec. later, adjust **VR401** and **VR402** so that the voltage is **50mV** Also, check that the voltage is **60 ~ 85mV** (standard: **80mV**) after lapse of **10 – 15 minutes.** (Below **85mV** after lapse of **60 min.**).

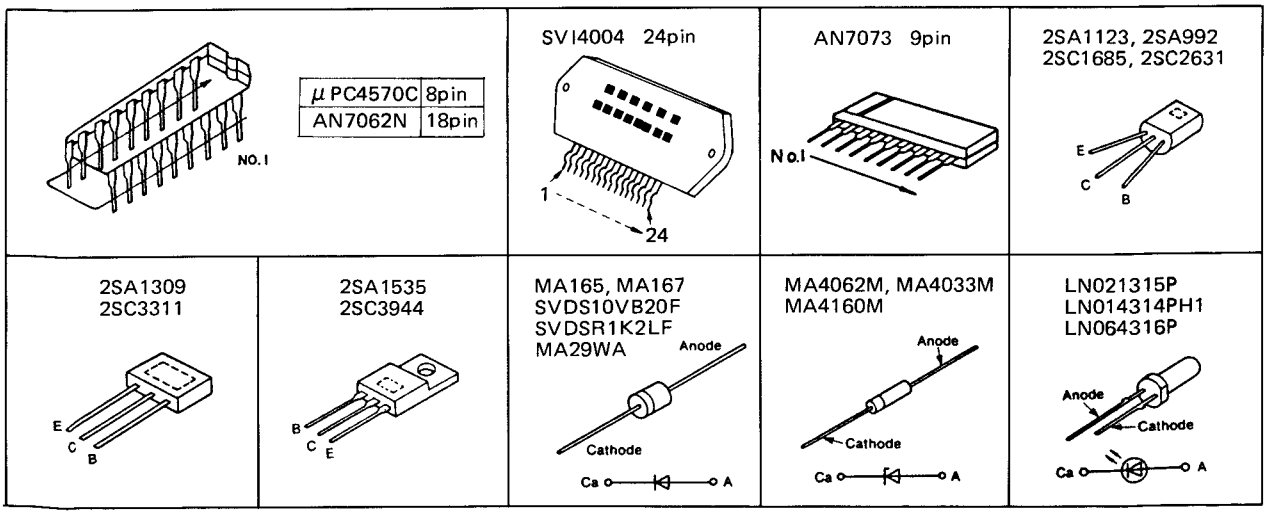



- **Adjustment points**




- **Terminal guide of IC, transistor and diodes**



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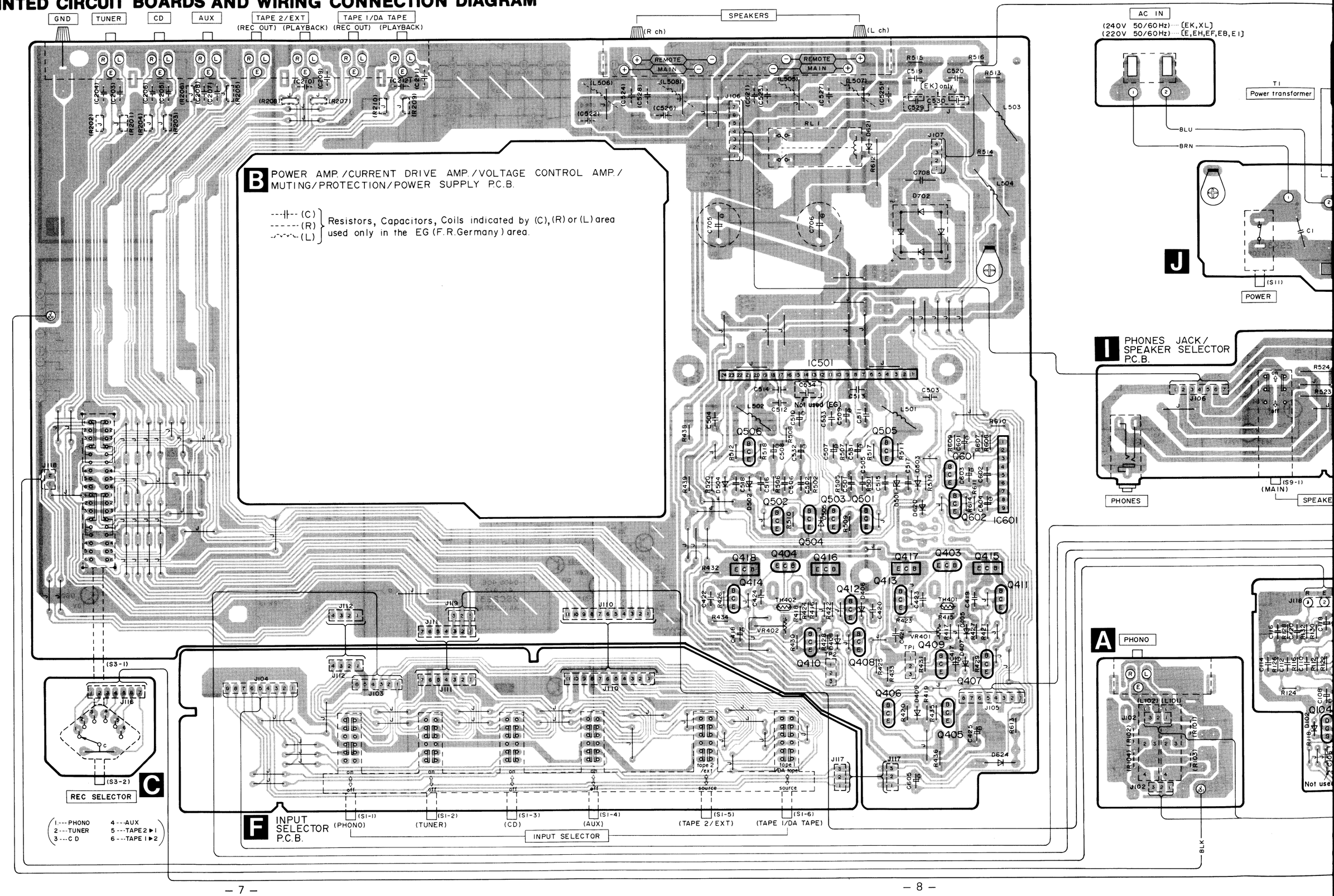
# ■ PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



AC IN
(240V 50/60Hz) ····· (EK, XL)
(220V 50/60Hz) ····· (E, EH, EF, EB, EI)

T1
Power transformer

BLU
BRN

J

F1 T2.5A

POWER (S11)

(XA) ONLY

AC IN
(110/127/220/240V 50/60Hz)

T1
Power transformer

(UNSWITCHED) (SWITCHED)
AC OUTLET

POWER (S11)

F2 T5A
F1 T2.5A

VOLTAGE SELECTOR

(EG) ONLY

AC IN
(220V 50/60Hz)

POWER (S11)

AMPLIFIER OPERATION MONITOR

I PHONES JACK/ SPEAKER SELECTOR P.C.B.

PHONES

(MAIN) (S9-1)
(REMOTE) (S9-2)
SPEAKERS

G
(CD DIRECT IND.)

H
VOLUME

D LED INDICATOR P.C.B.

(CURRENT DRIVE IND.) (VOLTAGE CONTROL IND.)

(PHONO IND.) (TUNER IND.) (CD IND.) (AUX IND.) (TAPE 2/EXT IND.) (TAPE 1/DA TAPE IND.)

A PHONO

E PHONO EQUALIZER/ TONE CONTROL/ VOLTAGE CONTROL AMP. P.C.B.

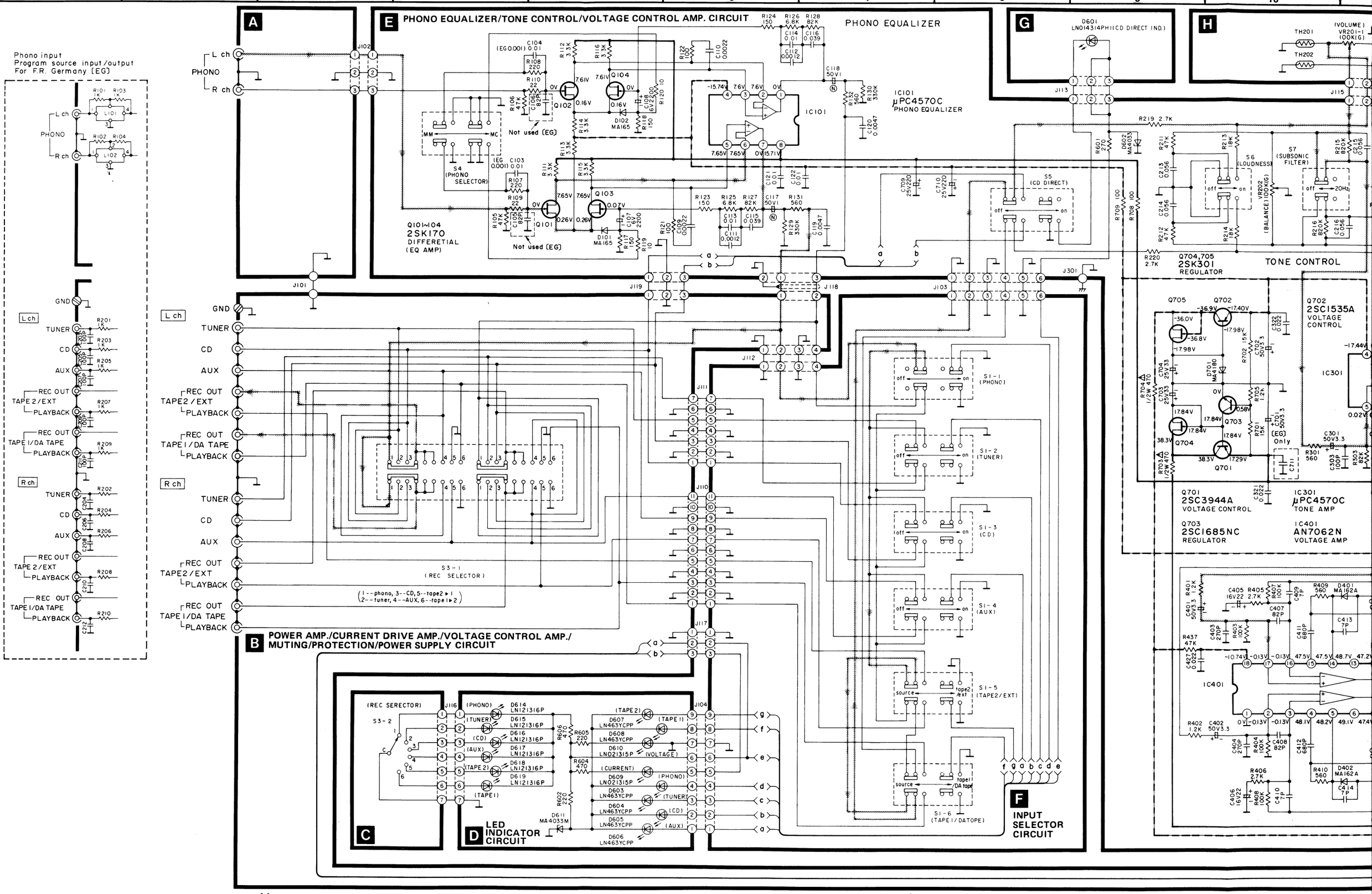
CD DIRECT

Not used (EG) Not used (EG)

PHONO SELECTOR (S4)
LOUDNESS (S6)
SUBSONIC FILTER (S7)

BLK

BALANCE
TREBLE
TONE CONTROL (S8)
BASS


Phono input
Program source input/output
For F.R. Germany (EG)
L ch
PHONO
R ch
A
E
PHONO EQUALIZER/TONE CONTROL/VOLTAGE CONTROL AMP. CIRCUIT
PHONO EQUALIZER
IC101
μPC4570C
PHONO EQUALIZER
Q101~104
2SK170
DIFFERETIAL
(EQ AMP)
Not used (EG)
S4
(PHONO
SELECTOR)
MM
MC
G
D601
LN0143I4PH(CD DIRECT IND.)
H
(VOLUME)
VR201-1
100K(G)
TH201
TH202
S7
(SUBSONIC
FILTER)
S6
(LOUDNESS)
S5
(CD DIRECT)
Q704,705
2SK301
REGULATOR
TONE CONTROL
Q705
Q702
2SC1535A
VOLTAGE
CONTROL
IC301
Q701
2SC3944A
VOLTAGE CONTROL
IC301
μPC4570C
TONE AMP
Q703
2SC1685NC
REGULATOR
IC401
AN7062N
VOLTAGE AMP
IC401
J101
J102
J103
J104
J110
J111
J112
J113
J115
J116
J117
J118
J119
J301
GND
L ch
TUNER
CD
AUX
REC OUT
TAPE 2/EXT
PLAYBACK
REC OUT
TAPE I/DA TAPE
PLAYBACK
R ch
S3-1
(REC SELECTOR)
(1--phono, 3--CD, 5--tape2►1
2--tuner, 4--AUX, 6--tape1►2)
S1-1
(PHONO)
S1-2
(TUNER)
S1-3
(CD)
S1-4
(AUX)
S1-5
(TAPE2/EXT)
S1-6
(TAPE1/DATOPE)
B
POWER AMP./CURRENT DRIVE AMP./VOLTAGE CONTROL AMP./
MUTING/PROTECTION/POWER SUPPLY CIRCUIT
C
(REC SERECTOR)
S3-2
D
LED
INDICATOR
CIRCUIT
F
INPUT
SELECTOR
CIRCUIT

H

TH201 TH202 (VOLUME) VR201-1 100K(G) (VOLUME) VR201-2 100K(G)

J115

S6 (LOUDNESS) S7 (SUBSONIC FILTER) VR202 (BALANCE) 100K(G)

TONE CONTROL

Q704,705
2SK301
REGULATOR

Q702
2SC1535A
VOLTAGE CONTROL

IC301

S8 (TONE CONTROL)

Q701
2SC3944A
VOLTAGE CONTROL

Q703
2SC1685NC
REGULATOR

IC301
μPC4570C
TONE AMP

IC401
AN7062N
VOLTAGE AMP

Q401,402
2SA1123
PRE DRIVE

VOLTAG CONTROL AMP.

IC501 POWER AMP./CURRENT DRIVE AMP.

BRIGE NETWORK

IC501
SV14004
POWER AMP.

Q501,502
2SC2631
CURRENT STABILIZER

Q503,504
2SA1123
CURRENT STABILIZER

Q505,506
2SA992
OVER LOAD DET.

Q501 Q502 Q503 Q504 Q505 Q506

Q403,404
2SC1685
ICQ ADJ.

Q407, 408
2SC3311A
LIMITER

IC601
AN7073
PROTECTION

MUTING/
PROTECTION

VOLTAGE CONTROL AMP.

TP1 TP2

Q405,406,
411,412
2SC2631
AA CLASS AMP

Q409,410
2SA1309A
LIMITER

Q415,416
2SC3944A
AA CLASS AMP

Q413,414
2SA1123
AA CLASS AMP

Q417,418
2SA1535A
AA CLASS AMP

IC601

BIAS MUTING OUTPUT SHINK OVER LOAD DETECTOR DC DET AC DET

Q601
2SA992
RELAY DRIVE

Q602
2SA1309A
LED DRIVE

D702 SVDS10VB20F

HEADPHONES

S9-1 MAIN S9-2 REMOTE

I

PHONES JACK/
SPEAKER
SELECTOR
CIRCUIT

J106

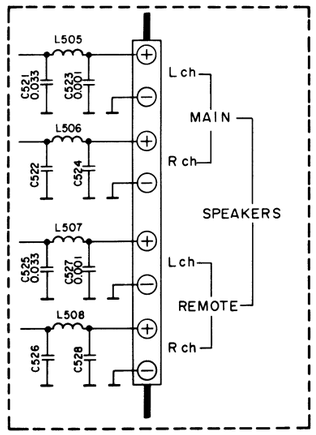
L ch MAIN R ch SPEAKERS L ch REMOTE R ch

J107

# ■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

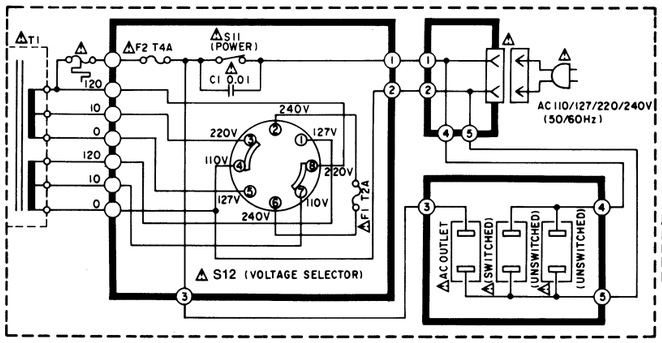
Speaker terminal
For F.R. Germany [EG]



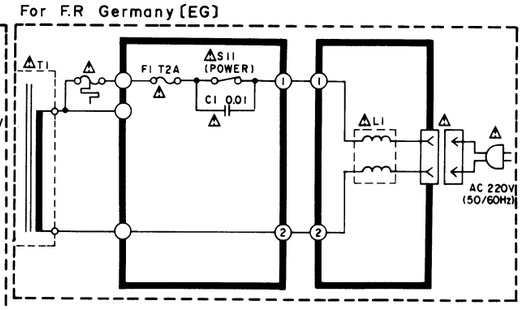

**Note:**

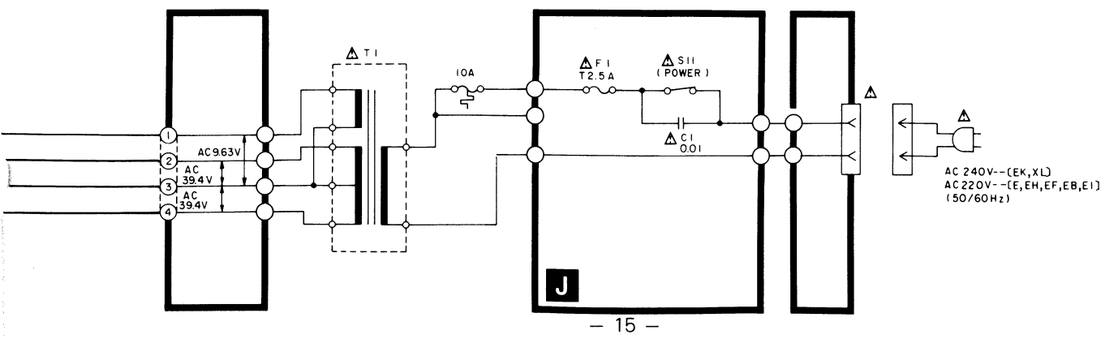
1. **S1-1 ~ S1-4:** Input selector switch in "**phono**" position.
   S1-1: phono S1-2: tuner S1-3: CD
   S1-4: aux S1-5: Tape/ext S1-6: Tape 1/DA tape
2. **S3-1, S3-2:** Recording selector in **"CD"** position.
3. **S4:** Phono selector in **"MM"** position.
   ( ▙ MM, ▟ MC)
4. **S5:** CD direct switch in "**off**" position.
   ( ▙ off, ▟ on)
5. **S6:** Loudness switch in "**off**" position.
   ( ▙ off, ▟ on)
6. **S7:** Subsonic filter switch in **"off"** position.
   ( ▙ off,, ▟ 20Hz)
7. **S8:** Tone control switch in "**defeat**" position.
   ( ▙ defeat, ▟ on)
8. **S9-1:** Main speaker switch in "**on**" position.
   ( ▙ off, ▟ on)
9. **S9-2:** Remote speaker switch in "**off**" position.
   ( ▙ off, ▟ on)
10. **S11:** Power switch in "**on**" position.
    ( ▙ off, ▟ on)
11. **S12:** (For [XA] area only): Voltage selector switch in **"110V"** position.
    (127V ↔ 110V ↔ 220V ↔ 240V)
12. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may
13. exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
    ▒▒▒ Phono signal (Lch)
    ——— Positive voltage lines —▬▬— Nagative voltage lines.
14. Important safety notice:
    Components identified by △ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

For other areas [XA]



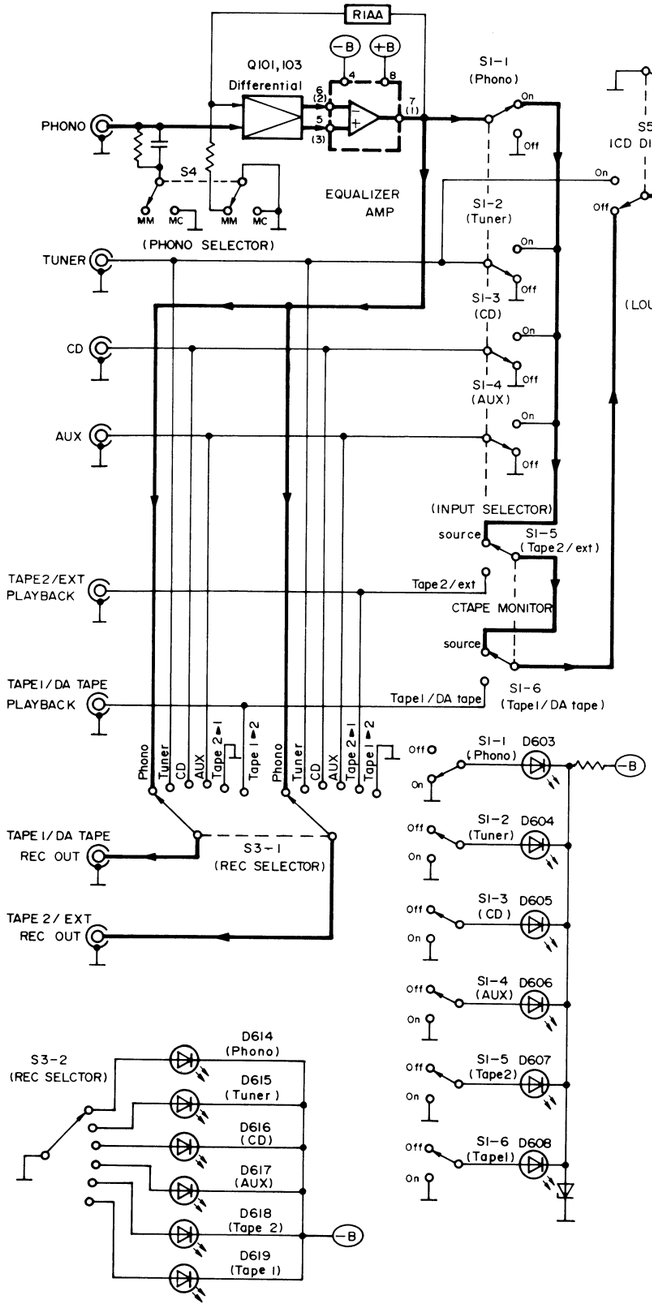

For F.R Germany [EG]



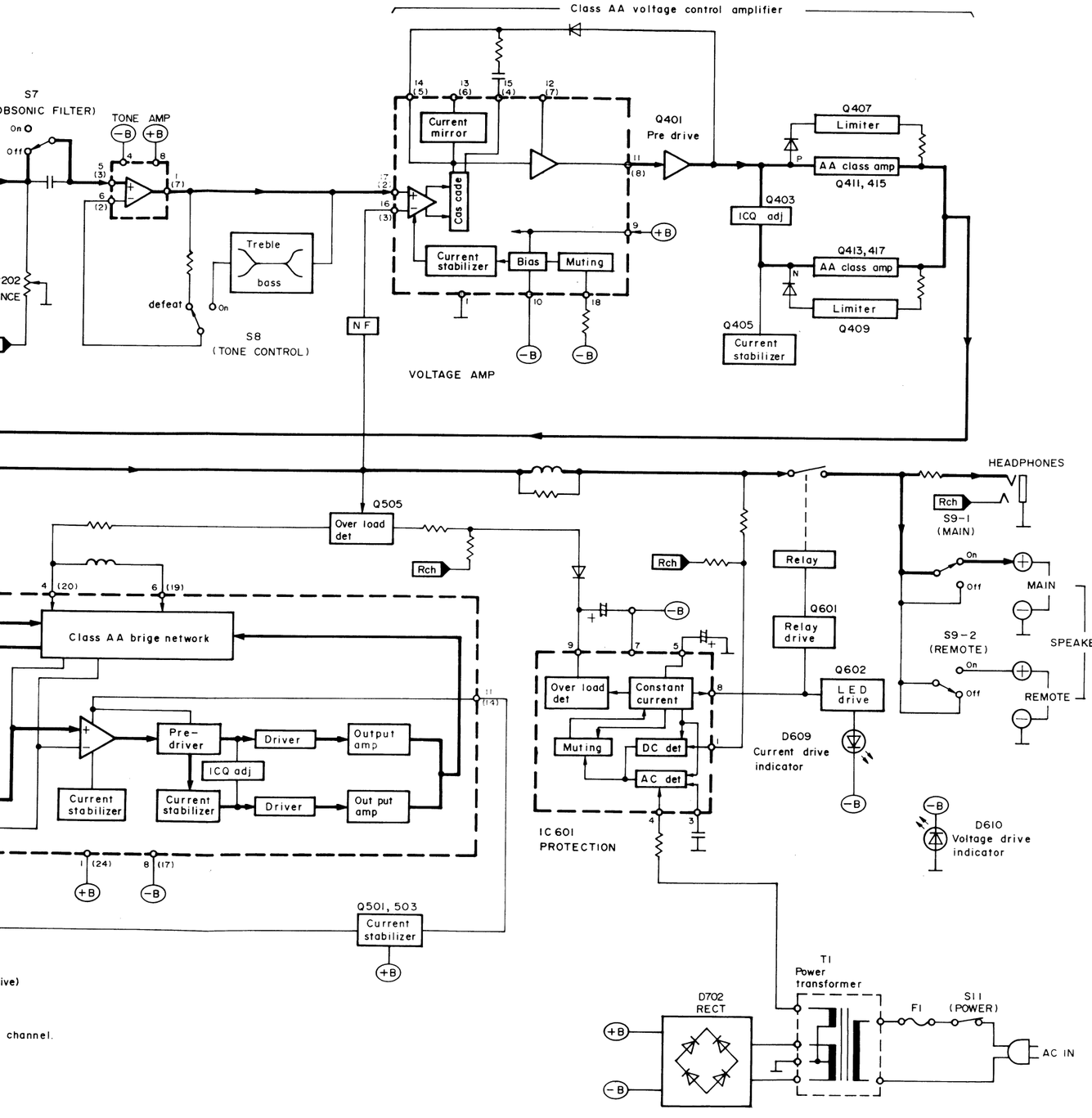



# ■ BLOCK DIAGRAM




2CH POWER AMP (Current drive)

( ) Indicates pin NO, of right channel.




ive)

channel.



# ■ REPLACEMENT PARTS LIST

**Notes:** * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

**Numbering System of Resistor**

Example

| ERD | 25 | F | J | 102 |
|---|---|---|---|---|
| Type | Wattage | Shape | Tolerance | Value |

| ERX | 2 | AN | J | 471 |
|---|---|---|---|---|
| Type | Wattage | Shape | Tolerance | Value 47x10¹ (ohm) |

**Numbering System of Capacitor**

Example

| ECKD | 1H | 102 | Z | F |
|---|---|---|---|---|
| Type | Voltage | Value | Tolerance | Peculiarity |

| ECEA | 50 | M | 330 |
|---|---|---|---|
| Type | Voltage | Peculiarity | Value (33x10° microfarad) |

| Resistor Type | Wattage | Tolerance |
|---|---|---|
| ERD : Carbon<br>ERG : Metal Oxide<br>ERX : Metal Film<br>ERQ : Fuse Type Metal<br>ERD☐ L : Carbon (chip)<br>ERO☐ K : Metal Film (chip)<br>ERC : Solid | 10 : 1/8W<br>12 : 1/2W<br>25 : 1/4W<br>1A : 1W<br>18 : 1/8W<br>S2 : 1/4W<br>S1 : 1/2W<br>2F : 1/4W<br>50 : 1/2W<br>2A : 2W | J : ±5%<br>F : ±1%<br>G : ±2%<br>K : ±10% |

| Capacitor Type | Voltage | Tolerance |
|---|---|---|
| ECE : Electrolytic<br>ECCD : Ceramic<br>ECKD : Ceramic<br>ECQM : Polyester<br>ECQP : Polyproylene<br>ECG : Ceramic<br>ECEA☐☐☐N: Non Polar Electrolytic<br>QCU☐ : Ceramic (Chip Type)<br>ECUX : Ceramic (Chip Type)<br>ECF : Semiconductor<br>EECW : Liquid electrolyte double layer capcitor | 0J : 6.3V<br>1A : 10V<br>1C : 16V<br>1E : 25V<br>1H : 50V<br>1V : 35V<br>50 : 50V<br>05 : 50V<br>2H : 500V<br>2A : 100V<br>1 : 100V<br>KC: 400V AC<br>KC: 125VAC (UL)<br>1J : 63V | C : ±0.25pF<br>J : ±5%<br>K : ±10%<br>Z : +80% −20%<br>P : +100% −0%<br>M : ±20%<br>D : ±0.5pF<br>G : ±2% |

| Ref. No. | Part No. | Part Code |
|---|---|---|
| **RESISTORS** | | |
| R101, R102 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R103, R104 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R105, R106 | ERDS2TJ473 | 001 152 2363 3 |
| R107, R108 | ERDS2TJ221 | 001 152 2431 8 |
| R109, R110 | ERDS2TJ220 | 001 152 2430 9 |
| R111, R112 | ER025VKF3301 | |
| R113, R114 | ERDS2TJ332 | 001 152 2357 1 |
| R115, R116 | ER025VKF3301 | |
| R117, R118 | ERDS2TJ151 | 001 152 2426 5 |
| R119, R120 | ERDS2TJ100 | 001 152 2420 1 |
| R121, R122 | ERDS2TJ101 | 001 152 2421 0 |
| R123, R124 | ERDS2TJ151 | 001 152 2426 5 |
| R125, R126 | ERDS2TJ682 | 001 152 2365 1 |
| R127, R128 | ERDS2TJ823 | 001 152 2456 9 |
| R129, R130 | ERDS2TJ334 | 001 152 2438 1 |
| R131, R132 | ERDS2TJ561 | 001 152 2364 2 |
| R201, R202 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R203, R204 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R205, R206 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R207, R208 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R209, R210 (EG) | ERDS2TJ102 | 001 152 2346 4 |
| R211, R212 | ERDS2TJ473 | 001 152 2363 3 |
| R213, R214 | ERDS2TJ183 | 001 152 2429 2 |
| R215, R216 | ERDS2TJ824 | 001 152 2457 8 |
| R219, R220 | FSR25TJ272T2 | |
| R301, R302 | FSR25TJ561T2 | |
| R303, R304 | ERDS2TJ823 | 001 152 2456 9 |
| R305, R306 | ERDS2TJ224 | 001 152 2433 6 |
| R307, R308 | ERDS2TJ392 | 001 152 2439 0 |
| R309, R310 | ERDS2TJ223 | 001 152 2432 7 |
| R311, R312 | ERDS2TJ102 | 001 152 2346 4 |
| R313, R314 | ERDS2TJ562 | 001 152 2445 2 |
| R315, R316 | FSR25TJ392T2 | |
| R317, R318 | FSR25TJ223T2 | |
| R319, R320 | ERDS2TJ183 | 001 152 2429 2 |
| R401, R402 | ERDS2TJ122 | 001 152 2423 8 |
| R403, R404 | ERDS2TJ104 | 001 152 2348 2 |
| R405, R406 | FSR25TJ272T2 | |
| R407, R408 | FSR25TJ104 | 001 152 6877 6 |
| R409, R410 | ERDS2TJ561 | 001 152 2364 2 |
| R411, R412 ⚠ | ERD25FJ470 | 001 152 0309 7 |
| R415, R416 | ERDS2TJ182 | 001 152 2352 6 |
| R417, R418 | ERDS2TJ391 | 001 152 2360 6 |
| R419, R420 ⚠ | ERD25FJ101 | 001 152 0214 3 |
| R421, R422 | ERDS2TJ223 | 001 152 2432 7 |
| R423, R424 | ERD25FJ821 | 001 152 0354 2 |
| R425, R426 | ERDS2TJ223 | 001 152 2432 7 |
| R427, R428 | ERD25FJ101 | 001 152 0214 3 |
| R429, R430 | ERD25FJ2R2 | 001 152 0251 8 |
| R431, R432 | ERD25FJ2R2 | 001 152 0251 8 |
| R433, R434 | ERD25FJ101 | 001 152 0214 3 |
| R435 | ERDS2TJ103 | 001 152 2347 3 |
| R436 ⚠ | ERD25FJ470 | 001 152 0309 7 |
| R437 | ERDS2TJ473 | 001 152 2363 3 |
| R438, R439 ⚠ | ERD25FJ6R8 | 001 152 0335 5 |
| R501, R502 | ER0S2TKF4220 | 001 151 5927 2 |
| R505, R506 | ERDS2TJ101 | 001 152 2421 0 |
| R507, R508 | ERDS2TJ101 | 001 152 2421 0 |
| R509, R510 ⚠ | ERD25FJ271 | 001 152 0272 3 |
| R511, R512 | ERDS2TJ271 | 001 152 2435 4 |
| R513, R514 | ERDS1FJ100 | 001 152 2612 5 |
| R515, R516 | ERD25FJ100 | 001 152 0213 4 |
| R517, R518 | ERDS2TJ472 | 001 152 2362 4 |
| R519, R520 | ERDS2TJ153 | 001 152 2351 7 |
| R523, R524 | ERG2SJ331 | 001 151 3570 9 |
| R601 | ERDS2TJ271 | 001 152 2435 4 |
| R602 | ERDS2TJ221 | 001 152 2431 8 |
| R604 | ERDS2TJ471 | 001 152 2361 5 |
| R605 | ERDS2TJ221 | 001 152 2431 8 |
| R606 | ERDS2TJ471 | 001 152 2361 5 |
| R607, R608 | ERDS2TJ473 | 001 152 2363 3 |
| R609 | ERDS2TJ153 | 001 152 2351 7 |
| R610 | ERDS2TJ124 | 001 152 2425 6 |
| R611 | ERDS2TJ472 | 001 152 2362 4 |
| R612 | ERG2SJ102 | 001 151 3562 9 |
| R613 | ERDS1FJ180 | 001 152 2620 5 |
| R614 | ERDS2TJ183 | 001 152 2429 2 |
| R701, R702 | ERDS2TJ153 | 001 152 2351 7 |
| R703, R704 ⚠ | ERDS1FJ471 | 001 152 2633 0 |
| R705 | ERDS2TJ122 | 001 152 2423 8 |
| R708, R709 | ERDS2TJ101 | 001 152 2421 0 |
| **CAPACITORS** | | |
| C1 ⚠ (XA) | ECKDKC103PF2 | 001 103 3734 7 |
| C1 (EK) | ECKDNS103ZV | 001 103 6921 4 |
| C1 (E, EG, EF) (EH, EB, EI) (XL) | ECKWNS103ZVS | 001 103 9317 6 |
| C103 (EG) | ECKD1H102KB | 001 103 1414 8 |
| C103 (E, EK, EF) (EH, EB, EI) (XL, XA) | ECQM1H103JZ | 001 106 0667 8 |
| C104 (EG) | ECKD1H102KB | 001 103 1414 8 |
| C104 (E, EK, EF) (EH, EB, EI) (XL, XA) | ECQM1H103JZ | 001 106 0667 8 |
| C105, C106 (E, EK, EF) (EH, EB, EI) (XL, XA) | ECCD1H820K | 001 103 0703 6 |
| C107, C108 | ECEA0JU222 | 001 120 3161 5 |
| C109, C110 | ECQM1H222JZ | 001 106 0732 6 |
| C111, C112 | ECQM1H122JZ | 001 106 0683 8 |
| C113, C114 | ECQM1H103JZ | 001 106 0667 8 |
| C115, C116 | ECQM1H393JZ | 001 106 0794 2 |
| C117, C118 | ECEA1HN0101S | 001 120 0354 0 |
| C119, C120 | ECQM1H472JZ | 001 106 0801 0 |
| C121, C122 | ECKD1H103PF | 001 103 1449 7 |
| C203, C204 (EG) | ECCD1H101K | 001 103 0341 2 |
| C205, C206 (EG) | ECCD1H101K | 001 103 0341 2 |

| Ref. No. | Part No. | Part Code |
|---|---|---|
| C207, C208 (EG) | ECCD1H101K | 001 103 0341 2 |
| C209, C210 (EG) | ECCD1H101K | 001 103 0341 2 |
| C211, C212 (EG) | ECCD1H101K | 001 103 0341 2 |
| C213, C214 | ECQM1H563JZ | 001 106 0827 0 |
| C215, C216 | ECQM1H563JZ | 001 106 0827 0 |
| C301, C302 | ECEA1HPS3R3 | 001 120 6064 3 |
| C303, C304 | ECCD1H101K | 001 103 0341 2 |
| C305, C306 | ECCD1H820K | 001 103 0703 6 |
| C307, C308 | ECEA1VPS4R7 | |
| C309, C310 | ECCD1H390K | 001 103 0597 0 |
| C311, C312 | ECEA1CPS100 | 001 120 6036 7 |
| C313, C314 | ECQM1H823JZ | 001 106 0852 9 |
| C315, C316 | ECQM1H153JZ | 001 106 0704 0 |
| C317, C318 | ECQM1H183JZ | 001 106 0723 7 |
| C319, C320 | ECQM1H182JZ | 001 106 0718 4 |
| C321, C322 ⚠ | ECKD1H223PF | 001 103 1510 9 |
| C401, C402 | ECEA1HPS3R3 | 001 120 6064 3 |
| C403, C404 | ECKD1H271KB | 001 103 1515 4 |
| C405, C406 | ECEA1CPS220 | 001 120 6060 7 |
| C407, C408 | ECCD1H820K | 001 103 0703 6 |
| C409, C410 | ECCD1H070D | 001 103 0274 6 |
| C411, C412 | ECKD1H681K | 001 103 1580 5 |
| C413, C414 | ECCD2H070D | 001 103 0727 8 |
| C415, C416 | ECQM1H102JZ | 001 106 0661 4 |
| C417, C418 | ECEA1HU010 | 001 120 2842 1 |
| C419, C420 | ECCD2H680K | 001 103 0772 3 |
| C421, C422 | ECCD2H680K | 001 103 0772 3 |
| C423, C424 | ECKD1H333PF | 001 103 1539 6 |
| C425 | ECEA2AU100 | 001 120 4922 4 |
| C426 (EG) | ECKD1H102KB | 001 103 1414 8 |
| C427 ⚠ | ECKD1H223PF | 001 103 1510 9 |
| C501, C502 | ECCD1H560K | 001 103 0660 0 |
| C503, C504 | ECCD2H330K | 001 103 0754 5 |
| C505, C506 | ECQM1H392JZ | 001 106 0790 6 |
| C507, C508 | ECEA1AU101 | 001 120 2830 5 |
| C509, C510 | ECEA1AU101 | 001 120 2830 5 |
| C511, C512 | ECCD2H330K | 001 103 0754 5 |
| C513, C514 | ECKD1H561KB | 001 103 1576 1 |
| C515, C516 | ECKD1H333PF | 001 103 1539 6 |
| C517, C518 | ECKD1H333PF | 001 103 1539 6 |
| C519 (E, EG, EF) (EH, EB, EI) (XL, XA) | ECQM1H223JZ | 001 106 0739 9 |
| C519 (EK) | ECQM1H473JZ | 001 106 0810 9 |
| C520 (E, EG, EF) (EH, EB, EI) (XL, XA) | ECQM1H223JZ | 001 106 0739 9 |
| C520 (EK) | ECQM1H473JZ | 001 106 0810 9 |
| C521, C522 (EG) | ECQM1H333JZ | 001 106 0779 1 |
| C523, C524 (EG) | ECKD1H102MD | 001 103 1424 6 |
| C525, C526 (EG) | ECQM1H333JZ | 001 106 0779 1 |
| C527, C528 (EG) | ECKD1H102MD | 001 103 1424 6 |
| C529, C530 (EK) | ECQM1H473JZ | 001 106 0810 9 |
| C531, C532 | ECEA1HU010 | 001 120 2842 1 |
| C533, C534 (E, EK, EF) (EH, EB, EI) (XL, XA) | ECFTD472KXL | 001 108 0746 0 |
| C601 | ECEA0JS331 | 001 120 2975 9 |
| C602 | ECFTD223KXL | 001 108 0342 6 |
| C603 | ECEA0JU470 | 001 120 3125 9 |
| C604 | ECEA1EU4R7 | 001 120 2840 3 |
| C605 | ECEA1CU471 | 001 120 3202 3 |
| C701, C702 | ECEA1HU3R3 | 001 120 3254 1 |
| C703, C704 | ECEA1ES330 | 001 120 2927 7 |
| C705, C706 | ECES59V103UM | 001 120 6276 3 |
| C708 (E, EK, EF) (EH, EB, EI) (XL, XA) | ECKD2H103PE | 001 103 1626 8 |
| C708 (EG) | ECQE2104KS | 001 106 0232 1 |
| C709, C710 | ECEA1EU221 | 001 120 2838 7 |
| C712 ⚠ (EG) | ECKD1H223PF | 001 103 1510 9 |

| Ref. No. | Part No. | Part Code | Description |
|---|---|---|---|
| **INTEGRATED CIRCUITS** | | | |
| IC101, IC301 | SVIUPC4570C | 001 060 8992 7 | I.C., EQUALIZER |
| IC401 | AN7062N | 001 060 8240 0 | I.C., AMP |
| IC501 | SVI4004 | 001 061 1230 5 | I.C., POWER AMP |
| IC601 | AN7073 | 001 060 8241 9 | I.C., PROTECTION |
| **TRANSISTORS** | | | |
| Q101, Q102 | 2SK170BLV | 001 030 3024 4 | TRANSISTOR |
| Q103, Q104 | 2SK170BLV | 001 030 3024 4 | TRANSISTOR |
| Q401, Q402 | 2SA1123R | 001 030 0242 8 | TRANSISTOR |
| Q403, Q404 | 2SC1685-QNC | 001 030 2729 2 | TRANSISTOR |
| Q405, Q406 | 2SC2631-Q | 001 030 2505 6 | TRANSISTOR |
| Q407, Q408 | 2SC3311A-Q | 001 030 5279 5 | TRANSISTOR |
| Q409, Q410 | 2SA1309AQS | 001 030 4846 0 | TRANSISTOR |
| Q411, Q412 | 2SC2631-Q | 001 030 2505 6 | TRANSISTOR |
| Q413, Q414 | 2SA1123-R | 001 030 0242 8 | TRANSISTOR |
| Q415, Q416 | 2SC3944AQRS | 001 030 5941 8 | TRANSISTOR |
| Q417, Q418 | 2SA1535AQRS | 001 030 6991 4 | TRANSISTOR |
| Q501, Q502 | 2SC2631-Q | 001 030 2505 6 | TRANSISTOR |
| Q503, Q504 | 2SA1123-R | 001 030 0242 8 | TRANSISTOR |
| Q505, Q506 | 2SA992E | 001 030 0513 4 | TRANSISTOR |
| Q601 | 2SA992E | 001 030 0513 4 | TRANSISTOR |
| Q602 | 2SA1309AQS | 001 030 4846 0 | TRANSISTOR |
| Q701 | 2SC3944AQRS | 001 030 5941 8 | TRANSISTOR |
| Q702 | 2SA1535AQRS | 001 030 6991 4 | TRANSISTOR |
| Q703 | 2SC1685-QNC | 001 030 2729 2 | TRANSISTOR |
| Q704, Q705 | 2SK301 | 001 030 2428 2 | TRANSISTOR |
| **DIODES** | | | |
| D101, D102 | MA165 | 001 032 0494 0 | DIODE |
| D401, D402 | MA167 | 001 032 4142 5 | DIODE |
| D403, D404 | MA29WA | 001 032 7250 0 | DIODE |
| D405, D406 | MA165 | 001 032 0494 0 | DIODE |
| D407, D408 | MA165 | 001 032 0494 0 | DIODE |
| D409 | MA29WA | 001 032 7250 0 | DIODE |
| D501, D502 | MA4062-M | 001 032 7211 7 | DIODE |
| D503, D504 | MA167 | 001 032 4142 5 | DIODE |
| D505 | MA29WA | 001 032 7250 0 | DIODE |
| D602, D611 | MA4033M | 001 032 5623 9 | DIODE |
| D620, D621 | MA165 | 001 032 0494 0 | DIODE |
| D624 | SVDSR1K2 | 001 032 1343 0 | DIODE |
| D701 | MA4180-M | 001 032 7224 2 | DIODE |
| D702 | SVDS10VB20F | 001 032 1338 7 | RECTIFIER |
| **VARIABLE RESISTORS** | | | |
| VR201 | EWJKXA090B15 | 001 174 8555 1 | VARIABLE RESISTER |
| VR202 | EVH0YA015G15 | 001 174 8584 6 | VARIABLE RESISTOR |
| VR301, VR302 | EWCRYA023C15 | 001 174 8586 4 | VARIABLE RESISTOR |
| VR401, VR402 | EVNK6AA00B52 | 001 180 0496 1 | VARIABLE RESISTER |

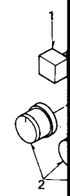
| Ref. No. | Part No. | Part Code | Description |
|---|---|---|---|
| **THERMISTORS AND VARISTORS** | | | |
| TH201, TH202 | ERTD2WHL104S | | THERMISTOR |
| TH401, TH402 | ERTD2WHL104S | | THERMISTOR |
| **COILS AND TRANSFORMERS** | | | |
| L1 ⚠ (EG) | SLQZ650MH49 | 001 210 7126 1 | COIL |
| L101, L102 (EG) | SLM1Z33 | 001 210 7084 4 | MPX COIL |
| L501, L502 | SLQY07G-40 | 001 211 2149 9 | CHOKE COIL |
| L503, L504 | SLQY18G-10 | 001 211 2185 5 | CHOCK COIL |
| L505, L506 (EG) | SLQY07G-40 | 001 211 2149 9 | CHOKE COIL |
| L507, L508 (EG) | SLQY07G-40 | 001 211 2149 9 | CHOKE COIL |
| T1 ⚠ (E, EG, EF) (EH, EB, EI) | SLT5P265 | 001 202 9079 9 | POWER TRANSFORMER |
| T1 ⚠ (EK, XL) | SLT5P266 | 001 202 9080 6 | POWER TRANSFORMER |
| T1 ⚠ (XA) | SLT5P267 | | POWER TRANSFORMER |
| **FUSES** | | | |
| F1 ⚠ (EK) | XBA2C25TB0 | 002 380 1330 6 | FUSE, T2.5A 250V |
| F1 ⚠ (E, EG, EF) (EH, EB, EI) (XL, XA) | XBA2C25TR0 | 002 380 0412 9 | FUSE, T2.5A 250V |
| F2 ⚠ (XA) | XBA2C50TR0 | 002 380 0419 2 | FUSE, T5A 250V |
| **SWITCHES** | | | |
| S1-1, S1-2 | SSH656 | 003 435 5817 2 | SWITCH |
| S1-3, S1-4 | SSH656 | 003 435 5817 2 | SWITCH |
| S1-5, S1-6 | SSH656 | 003 435 5817 2 | SWITCH |
| S3-1 | ESA2682 | 003 439 0120 8 | SWITCH |
| S3-2 | ESA335029B | 003 439 1885 6 | SWITCH |
| S4 | SSH3704 | 003 435 5786 2 | SWITCH |
| S5 | SSH1215 | 003 435 5784 4 | SWITCH |
| S6, S7 | SSH3704 | 003 435 5786 2 | SWITCH |
| S8 | SSH1218 | 003 435 5984 8 | SWITCH |
| S9-1, S9-2 | SSH2115 | 003 435 5785 3 | SWITCH |
| S11 ⚠ | ESB8215V | 003 435 4958 4 | PUSH SWITCH |
| S12 (XA) | ESE37263 | 003 430 2327 2 | SWITCH |
| **RELAYS** | | | |
| RL1 | SSY126 | 003 450 2686 0 | RELAY |



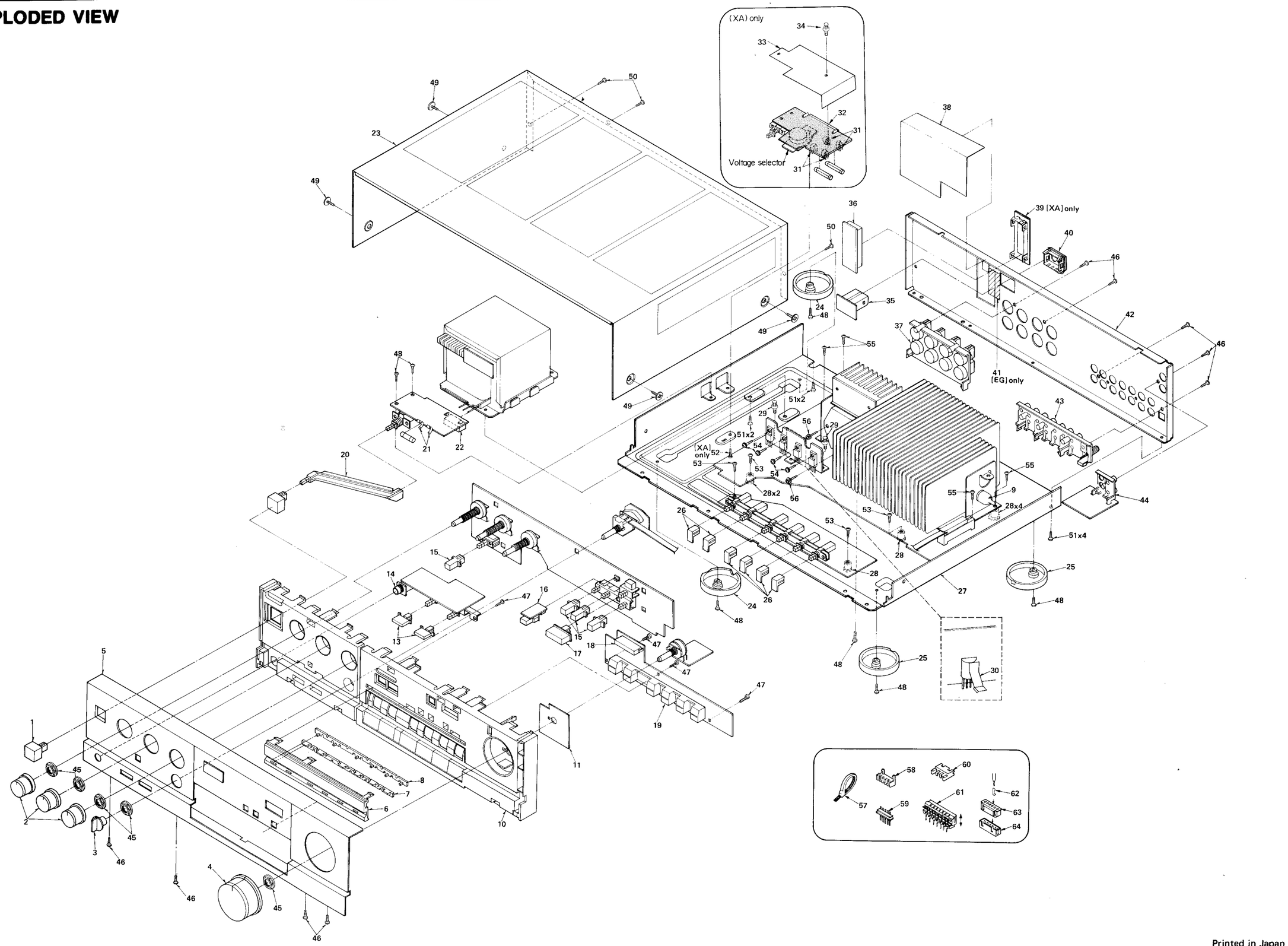
| Ref. No. | Part No. | Part Code | Description |
|---|---|---|---|
| **CABINET AND CHASSIS** | | | |
| 1 Ⓢ | SBC666 | 016 702 5545 6 | BUTTON, POWER |
| 1 Ⓚ | SBC666-5 | 016 702 6679 9 | BUTTON, POWER |
| 2 Ⓚ | SBN1206 | 016 700 1846 2 | KNOB |
| 2 Ⓢ | SBN1207-1 | 016 700 1845 3 | KNOB |
| 3 Ⓚ | SBN1089-3 | 016 700 1861 3 | KNOB, REC |
| 3 Ⓢ | SBN1089-4 | 016 700 1860 4 | KNOB, REC |
| 4 Ⓚ | SBN1210 | 016 700 1859 7 | KNOB, MAIN VOL |
| 4 Ⓢ | SBN1210-1 | 016 700 1862 2 | KNOB, MAIN VOL |
| 5 Ⓚ | SGWUV65A-KE | 016 840 7887 8 | FRONT PANEL |
| 5 Ⓢ | SGWUV65A-SE | | FRONT PANEL |
| 6 Ⓚ | SGX7915 | 016 846 3857 0 | ORNAMENT |
| 6 Ⓢ | SGX7915-1 | 016 846 3929 1 | ORNAMENT |
| 7 | SGL247 | 016 846 3893 6 | ORNAMENT |
| 8 | SGL246 | 016 846 3894 5 | ORNAMENT |
| 9 | SXE1160 | | HEAT SINK |
| 10 Ⓚ | SGXUV65A-KE | 016 846 3904 0 | ORNAMENT |
| 10 Ⓢ | SGXUV65A-SE | 016 846 3927 3 | ORNAMENT |
| 11 | SMC6407-1 | 016 601 0633 9 | SHIELD COVER |
| 13 Ⓢ | SBC439 | 016 702 0595 6 | BUTTON, SPEAKER |
| 13 Ⓚ | SBC439-2 | 016 702 6011 7 | BUTTON, SPEAKER |
| 14 | SJJ126B | 003 400 5920 7 | JACK |
| 15 Ⓢ | SBC719 | 016 702 6143 6 | BUTTON |
| 15 Ⓚ | SBC719-1 | 016 702 1277 3 | BUTTON |
| 16 | LN014314PH1 | | DIODE, GAASP |
| 17 Ⓚ | SBC820 | 016 702 6431 1 | BUTTON, CD DIRECT |
| 17 Ⓢ | SBC820-1 | 016 702 6432 0 | BUTTON, CD DIRECT |
| 18 | LN021315P | 001 032 8371 8 | DIODE, GAASP |
| 19 | LN121316P | 001 032 8558 9 | DIODE, GAASP |
| 20 | SUB256 | 016 712 0321 4 | ROD |
| 21 (E, EG, EK) (EF, EH, EB) (EI, XL) | SJT388 | 003 410 6092 8 | LUG TERMINAL |
| 22 (E, EG, EK) (EF, EH, EB) (EI, XL) | SJS305-1 | | JACK, SOCKET |
| 23 Ⓚ | SKC1960K992 | 016 800 2649 4 | CABINET |
| 23 Ⓢ | SKC1960S982 | 016 800 2666 3 | CABINET |
| 24 | SKL308 | 016 828 0330 0 | FOOT |
| 25 | SKL309 | 016 828 0329 3 | FOOT |
| 26 | SUB254 | 016 712 0318 9 | ROD |
| 27 (E, EG, EK) (EF, EH, EB) (EI, XL) | SKU11420-2 | 016 802 2208 5 | BOTTOM BOARD |
| 27 (XA) | SKU11420-3 | 016 802 2209 4 | BOTTOM BOARD |
| 28 | SHE187-1 | 016 918 0584 9 | SPACER |
| 29 | SHR415 | 016 652 0088 7 | LOCK PIN |
| 30 | SUS227 | 016 727 0111 1 | SPRING |
| 31 (XA) | SJT347 | 003 410 1830 8 | FUSE HOLDER |
| 32 (XA) | SJS702-1 | | JACK, SOCKET |
| 33 (XA) | SMX916 | 016 600 0494 7 | SHIELD SPACER |
| 34 (XA) | SHR415 | 016 652 0088 7 | LOCK PIN |
| 35 (E, EG, EK) (EF, EH, EB) (EI, XA) | SJS9231-1B | 003 400 7442 8 | SOCKET |
| 35 ⚠ (XL) | SJS9234B | 003 400 5922 5 | AC INLET |
| 36 (XA) | SJS9328B | 003 410 6976 1 | SOCKET |
| 37 | SJF4815-2 | 003 410 3931 9 | TERMINAL BOARD |
| 38 | SMX909 | 016 600 0482 1 | SHIELD SPACER |
| 39 (XA) | SJS9328A | 003 410 6975 2 | SOCKET COVER |
| 40 (E, EG, EK) (EF, EH, EB) (EI, XA) | SJS9231A | 003 410 5984 5 | SOCKET COVER |
| 40 ⚠ (XL) | SJS9234A | 003 400 5921 6 | AC INLET COVER |
| 41 (EG) | SMX477-1 | 016 600 0501 5 | SHIELD SPACER |
| 42 (E) | SGP6810-4E | 016 840 8028 9 | REAR PANEL |
| 42 (EG, EF, EH) (EB, EI) | SGP6810-4F | 016 840 7908 0 | REAR PANEL |
| 42 (EK) | SGP6810-4G | 016 840 7870 7 | REAR PANEL |
| 42 (XL) | SGP6810-4H | 016 840 7941 9 | REAR PANEL |
| 42 (XA) | SGP6810-5B | 016 840 7788 0 | REAR PANEL |
| 43 | SJF3062N | 003 410 6082 0 | TERMINAL BOARD |
| 43 | SJF4815-2 | 003 410 3831 9 | TERMINAL BOARD |
| 44 | SJF3057-5N | 003 410 6144 3 | TERMINAL BOARD |
| 45 | SNE4021 | 005 507 0372 5 | NUT |
| 46 | XTBS3+10JFZ1 | 005 501 3413 1 | TAPPING SCREW |
| 47 | XTB3+10GFR | 005 501 3126 5 | SCREW |
| 48 | XTW3+10T | 005 501 0996 9 | SCREW |
| 49 Ⓢ | SNE2129 | 005 500 8058 5 | SCREW |
| 49 Ⓚ | SNE2129-1 | 005 500 7938 6 | SCREW |
| 50 | XTBS3+10JFZ1 | 005 501 3413 1 | TAPPING SCREW |
| 51 | XTB3+8FFZ | 005 501 2531 0 | TAPPING SCREW |
| 52 (XA) | XYN3+F8 | 005 503 0513 0 | SCREW |
| 53 | XTB3+20J | 005 501 3410 4 | SCREW |
| 54 | XTW3+8T | 005 501 1358 9 | SCREW |
| 55 | XTBS3+20F1 | 005 501 2522 1 | SCREW |
| 56 | XYN3+F14 | 005 503 0346 7 | TAPPING SCREW |
| 57 | SHR301 | 016 645 0044 0 | CLAMPER |
| 58 | SJS5341 | 003 403 4292 1 | CONNECTOR |
| 59 | SJT3311 | 003 410 1819 3 | PLUG |
| 60 | SJT3711 | 003 410 6955 6 | CONNECTOR |
| 61 | SJT30840LX-V | 003 410 5998 9 | LUG TERMINAL |
| 61 | SJT30940LX-V | 003 410 6150 5 | LUG TERMINAL |
| 62 | SJT783 | 003 410 6001 7 | CONTACT |
| 63 | SJS5215 | 003 400 5923 4 | CONNECTOR |
| 63 | SJS5331 | 003 400 5924 3 | CONNECTOR |
| 63 | SJS5629 | 003 400 5917 2 | CONNECTOR |
| 63 | SJS5715 | 003 400 6034 4 | SOCKET(7P) |
| 64 | SJT3213 | 003 410 6011 5 | CONNECTOR |
| 64 | SJT3319 | 003 403 3892 7 | CONNECTOR |
| 64 | SJT3321 | 003 410 5999 8 | POST(3P) |
| 64 | SJT3611 | 003 410 6000 8 | CONNECTOR |
| **PACKINGS** | | | |
| P1 Ⓚ (E, EG, EK) (EH, EB, EI) (XL, XA) | SPG5961 | 016 971 5120 6 | CARTON BOX |
| P1 Ⓢ (E, EG, EK) (EH, EB, EI) (XL, XA) | SPG5962 | 016 971 5146 6 | CARTON BOX |
| P1 (EF) | SPG5963 | 016 971 5147 5 | CARTON BOX |
| P2 | SPSK99-1 | 016 977 3355 7 | PAD |
| P3 | SPSK100-1 | 016 977 3354 8 | PAD |
| P4 | SPS4613-1 | 016 977 2865 4 | PAD |
| P5 Ⓚ | SPP653 | 016 978 0179 2 | PROTECTION COVER |
| P5 Ⓢ | SPP705 | 016 978 0199 8 | PROTECTION COVER |
| **ACCESSORIES** | | | |
| A1 ⚠ (XA) | SJP9215 | 003 402 1437 9 | AC PLUG ADAPTOR |
| A2 | SKL312 | 016 828 0333 7 | INSULATOR |
| A3 ⚠ (E, EG, EF) (EH, EB, EI) | SFDAC05E03 | 003 490 4809 5 | POWER CORD |
| A3 ⚠ (EK) | SFDAC05G02 | 003 490 2613 3 | POWER CORD |
| A3 ⚠ (XA) | SJA168-1 | 003 490 4122 9 | POWER CORD |
| A3 ⚠ (XL) | SJA173 | 003 490 4161 2 | POWER CORD |
| A4 (E, EK, EF) (EH, EB, EI) (XL) | SQF12884 | 016 983 5260 9 | INSTRUCTION BOOK |
| A4 (EG) | SQF12885 | 016 983 5353 5 | INSTRUCTION MANUAL |
| A4 (XA) | SQF12886 | 016 983 5285 0 | INSTRUCTION BOOK |







## ■ EXPLODED VIEW





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ORDER NO. HAD8707211S2

# Service Manual

Supplement

Stereo Integrated Amplifier

Amplifier

# SU-V65A

**Color**

| | |
|---|---|
| (S) . . . . . | Silver Type |
| (K) . . . . . | Black Type |

**Area**

| Color | Area |
|---|---|
| (S) (K) | (EG) . . . . . F.R.Germany |

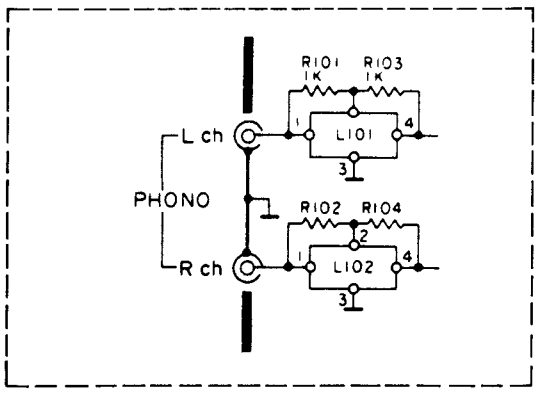
**Please use this supplement mamual together with the service manual for Model No. SU-V65A, Order No. HAD8704087C8.**

**Notes:**
- The phono input circuit of this unit was changed during production. Please note the following points when servicing.
- This supplement should be filed with the service manual for Model No. SU-V65A, Order No. HAD8704087C8.

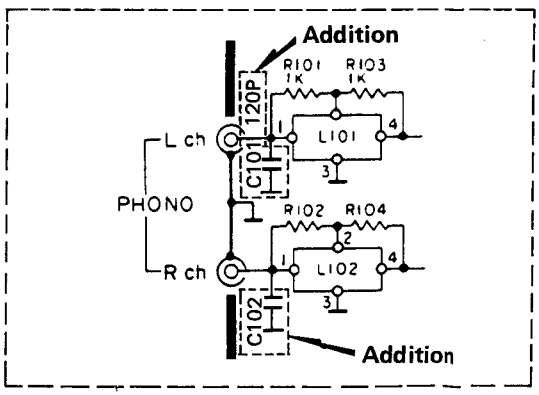
## CHANGES

## ■ SCHEMATIC DIAGRAM

(OLD)




(NEW)




- **Addition of Replacement Parts List**

| Ref. No. | Part No. | Part Name |
|---|---|---|
| C101, 102 | ECCD1H120K | Ceramic capacitor 50V, 120pF, ±10% |

Technics

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